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(57) Abstract:

PROBLEM TO BE SOLVED: To provide a reflection mirror capable of instantaneously switching a shape by using an optical element such as, for example, DMD(a trade name: Digital Micromirror Device), etc.

SOLUTION: A silicon substrate 23 is arranged on a base 22. A yoke 25 is arranged on the silicon substrate 23. The yoke 25 is arranged to be freely turnable with a torsion hinge 26. Micro mirror 21 is arranged on the yoke 25 via a connection pin. In ON state, the yoke 25 and the micro mirror 21 are tilted toward the center side of the reflection mirror 11. The larger the tilt angle is, the further the micro mirror is from the center of the reflection mirror, therefore, the reflection mirror acts as a concave reflection mirror.

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